

Report No.:

Test Time: 2024/9/19 15:59:35

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP150CT095H107-38°-15.3W
Lamp Type:
Luminous Width: 88 mm
Luminous Length: 88 mm
Luminous Height: 82 mm

Voltage(V): 219.80 V
Current(A): 0.0730 A
Power(W): 15.34 W
Power Factor: 0.9460
Lamp Luminous Flux: 1420.38

Photometric Results

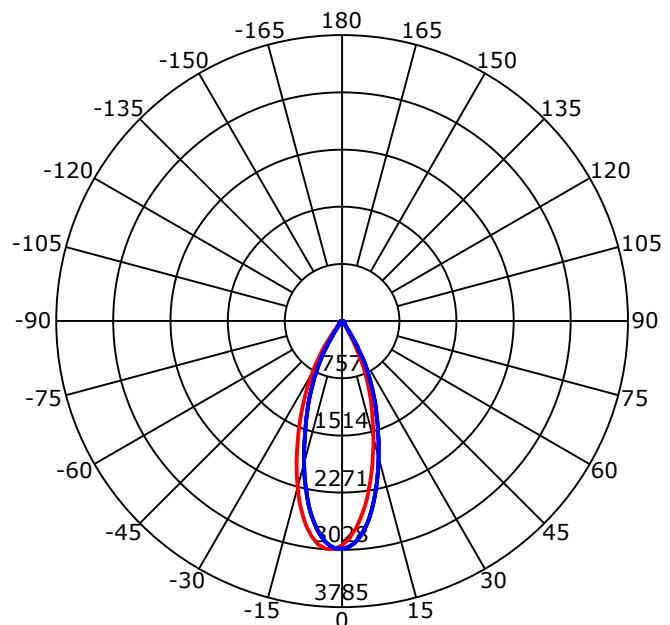
CIE Class: Direct
Luminaire Luminous Flux: 1420.375 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 92.59 lm/W
Beam Angle(50%) C0-180,C90-270: 37.9,37.2
Field Angle(10%) C0-180,C90-270: 64.9,64.1
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 3027.76 cd
Max.Intensity Angle: C=225 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2966.82 cd
Effective Luminous Flux: 1264.40 lm
ERP(ϕ use)(120deg): 1397.34 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 37.9 deg,37.2 deg

C0-180 — C90-270 —

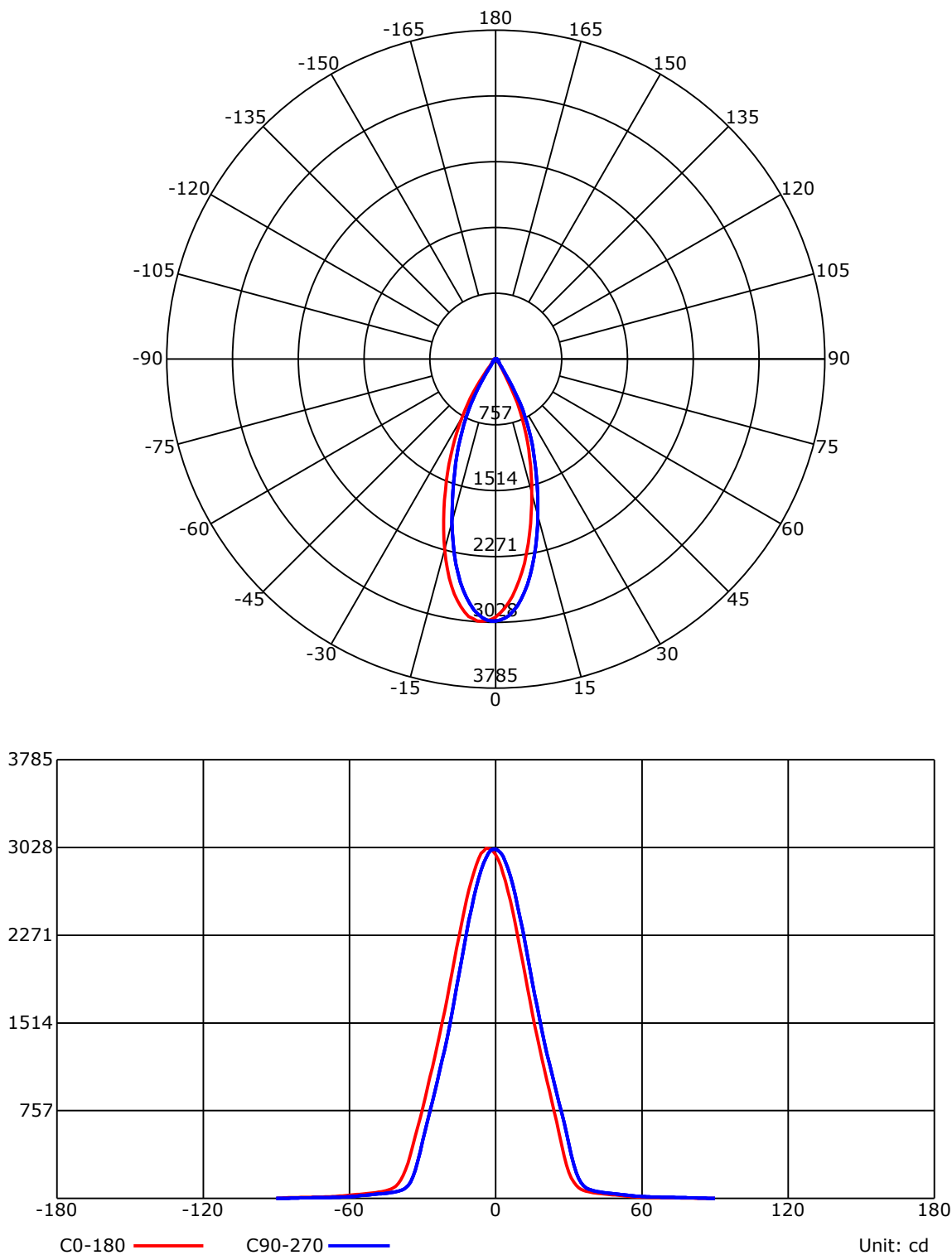
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/19 15:59:35

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



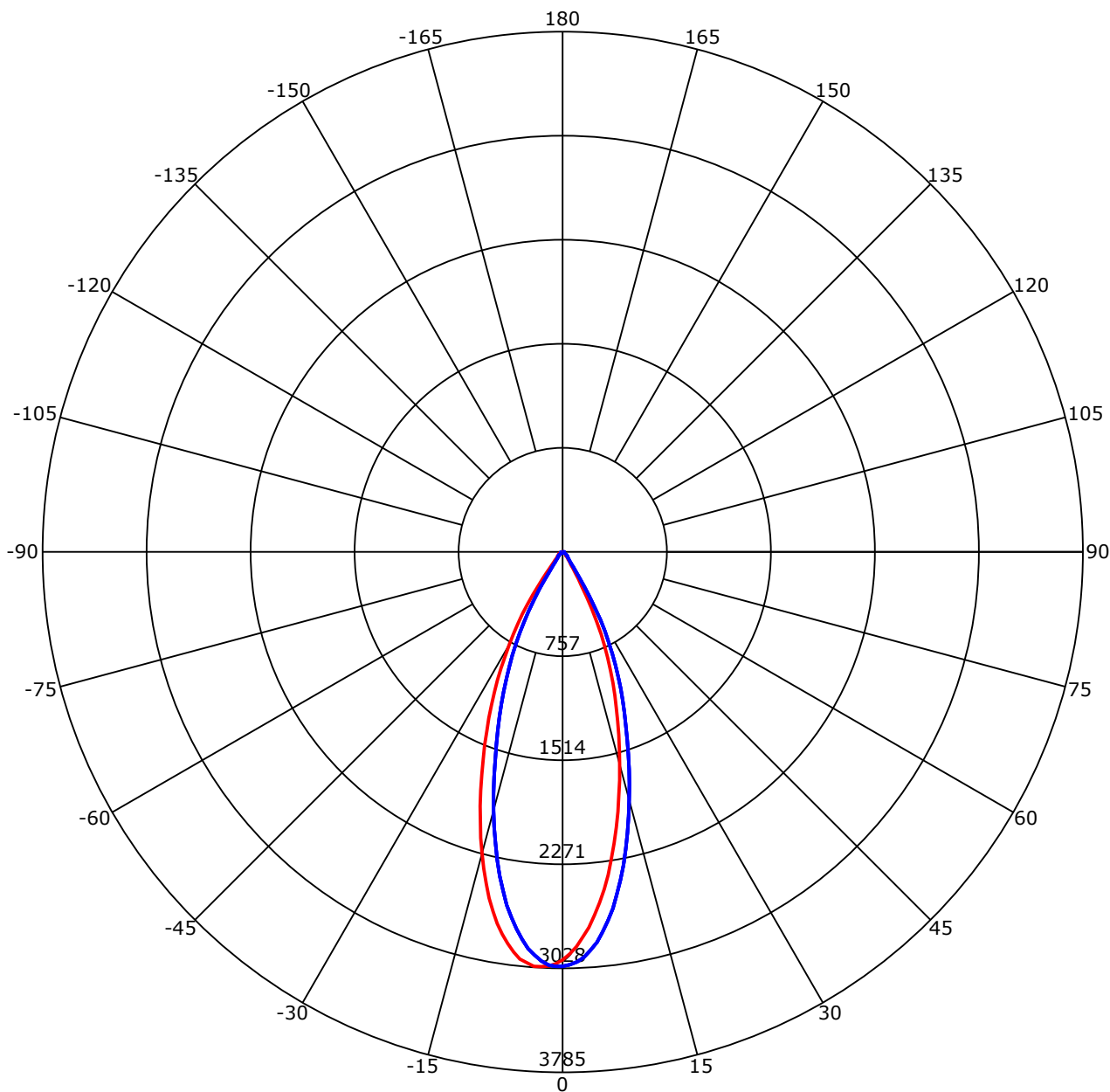
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

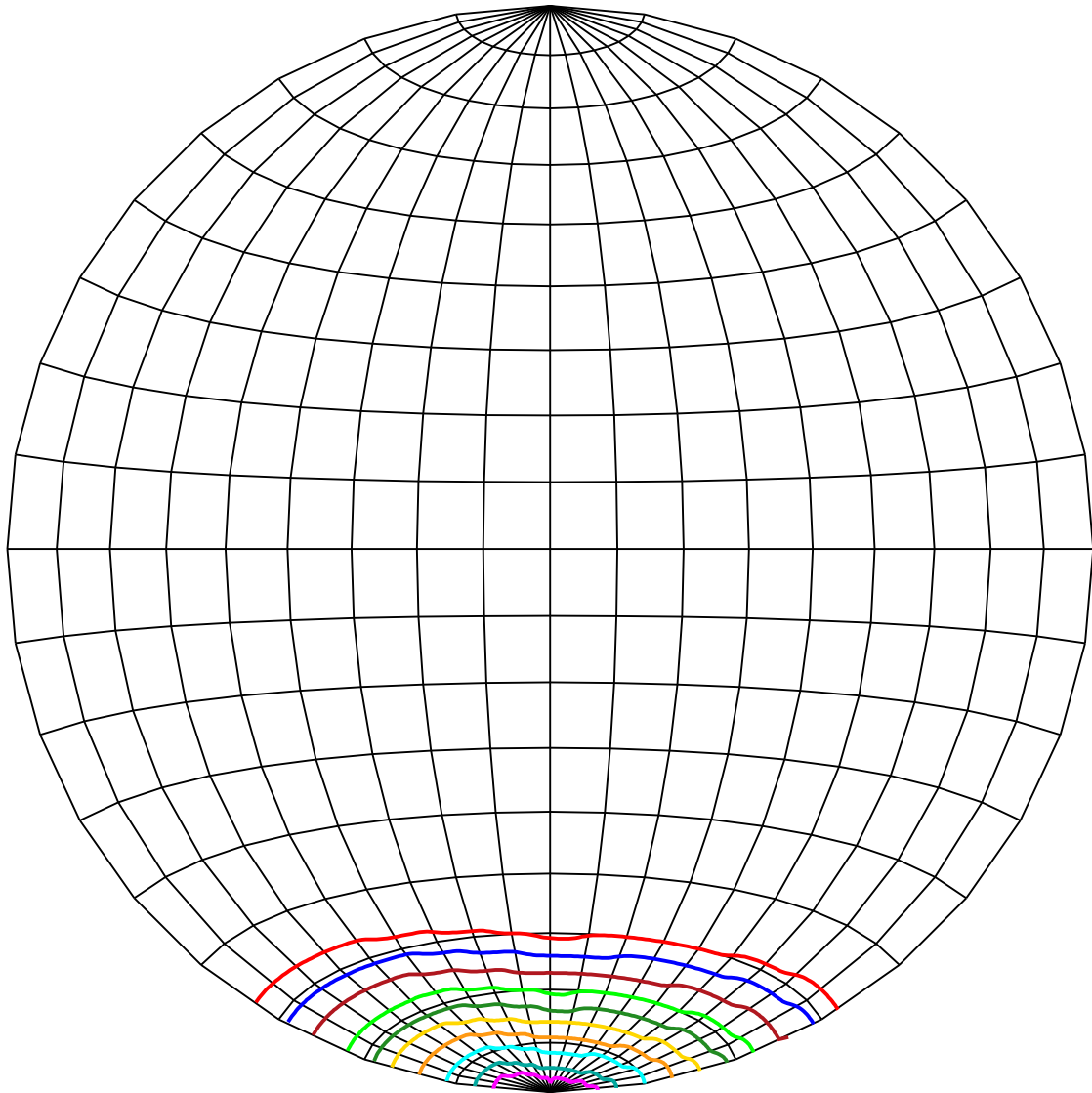
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 3027.757 cd

2876.369(95%I _{max})	1513.878(50%I _{max})
2724.981(90%I _{max})	1211.103(40%I _{max})
2422.205(80%I _{max})	908.327(30%I _{max})
2119.43(70%I _{max})	605.551(20%I _{max})
1816.654(60%I _{max})	302.776(10%I _{max})

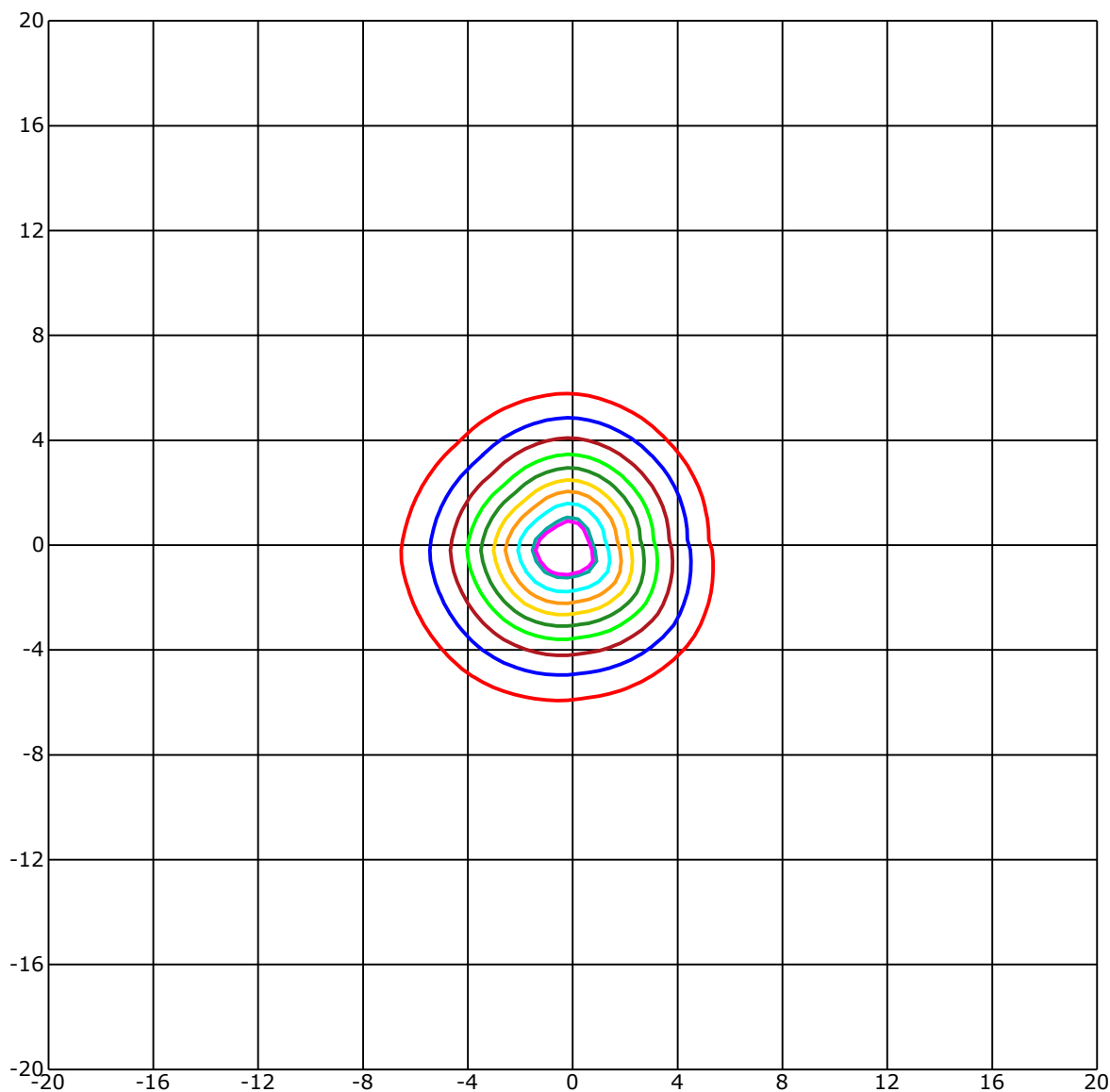
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ISOLX DIAGRAM



Unit of illumination:lx Height of plane:10.0(m)/32.81(ft)

27.804(92%Emax)	15.111(50%Emax)
27.2(90%Emax)	12.089(40%Emax)
24.178(80%Emax)	9.067(30%Emax)
21.156(70%Emax)	6.044(20%Emax)
18.133(60%Emax)	3.022(10%Emax)

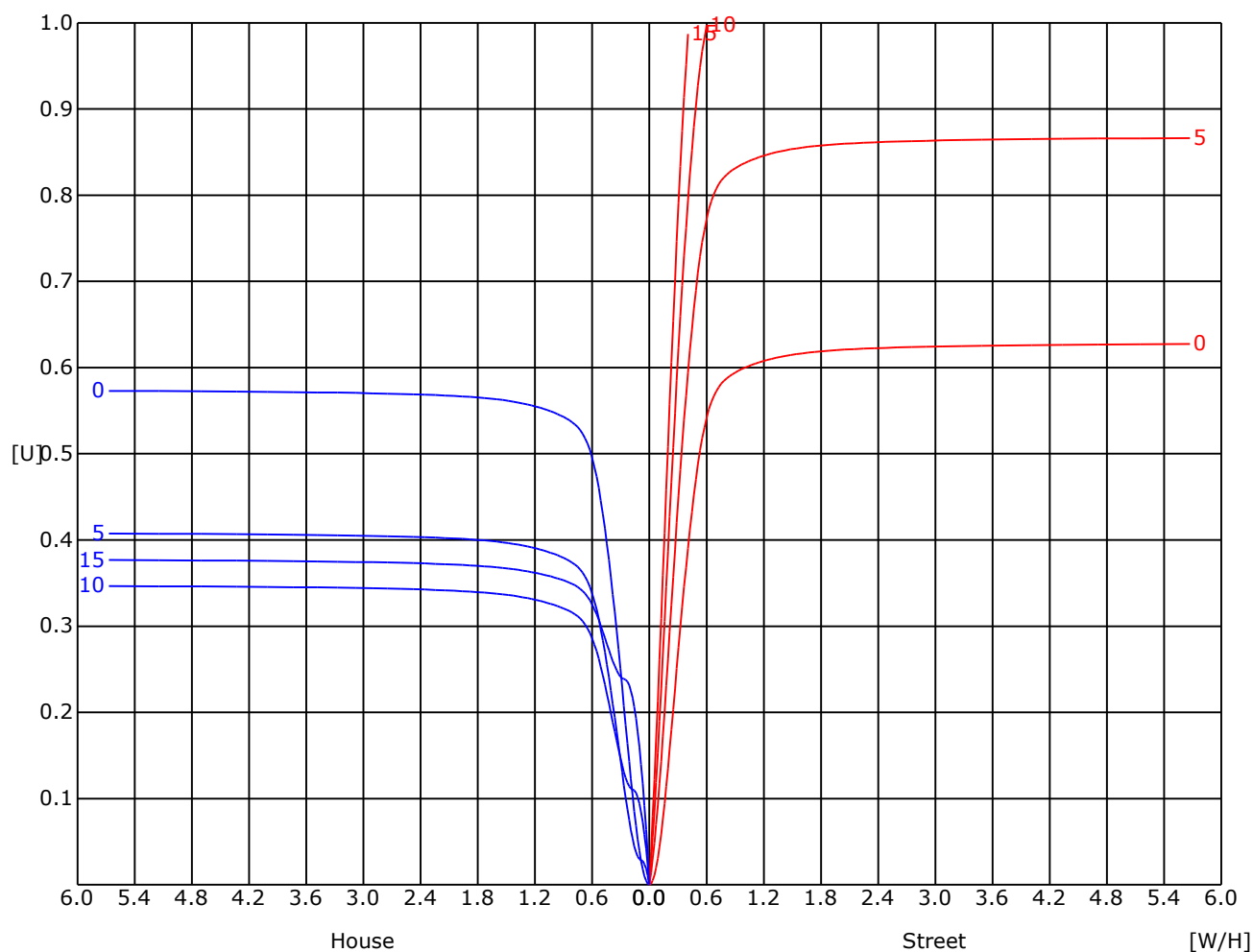
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UTILIZATION FACTOR DIAGRAM (ROAD)



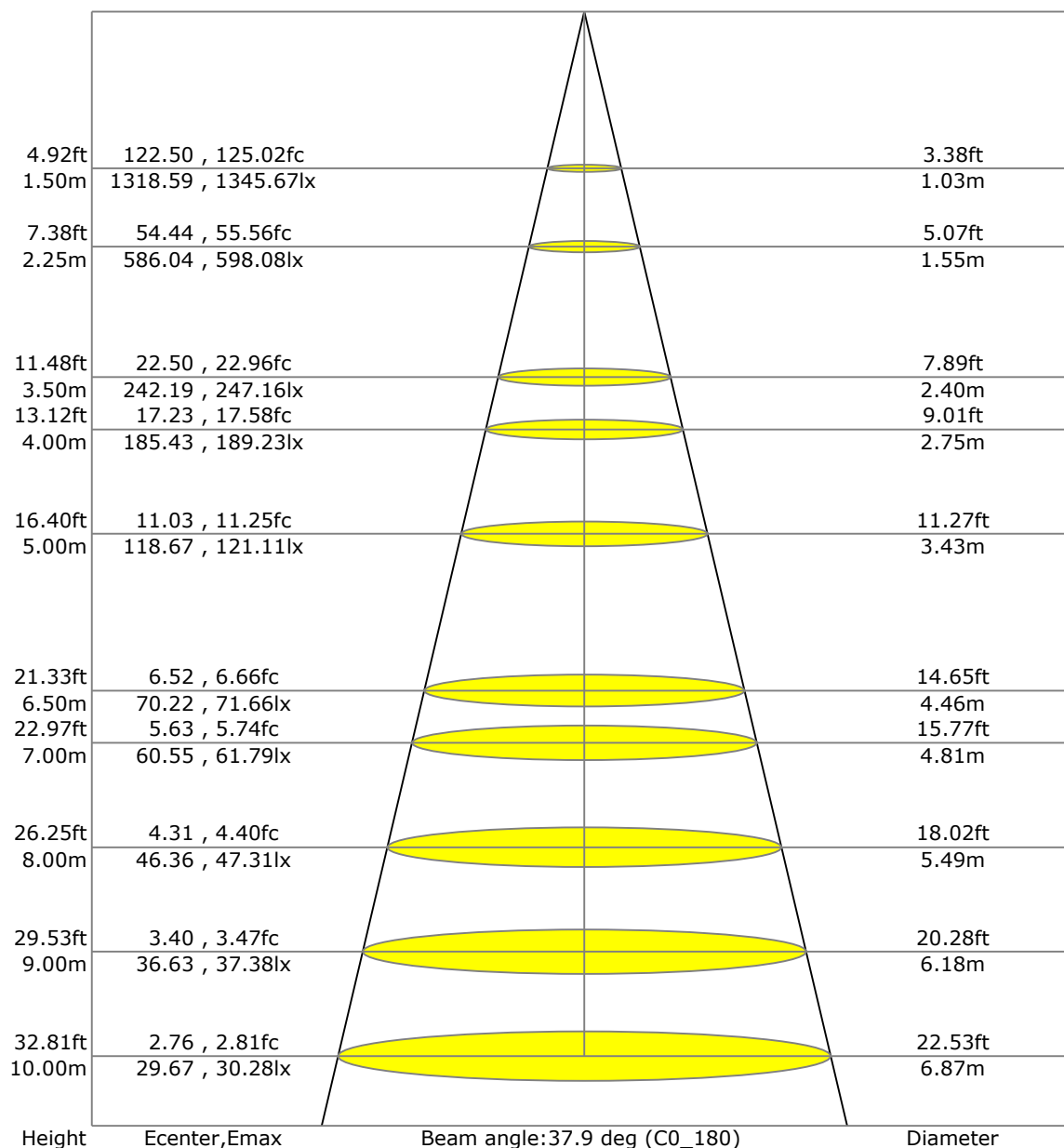
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LX-DISTANCE DIAGRAM



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UGR(Unified Glare Rating) TABLE

RHOCC		70	70	50	50	30	70	70	50	50	30
RHOW		50	30	50	30	30	50	30	50	30	30
RHOF		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewed Endwise					Viewed Crosswise				
2H	2H	5.35	5.40	5.55	5.59	5.83	5.82	5.87	6.02	6.06	6.30
	3H	5.40	5.45	5.60	5.64	5.89	5.84	5.89	6.04	6.08	6.33
	4H	5.40	5.45	5.61	5.65	5.90	5.83	5.88	6.04	6.08	6.33
	6H	5.39	5.45	5.61	5.65	5.90	5.82	5.87	6.03	6.07	6.32
	8H	5.38	5.44	5.60	5.64	5.89	5.81	5.86	6.03	6.07	6.32
	12H	5.37	5.43	5.60	5.63	5.89	5.80	5.85	6.02	6.06	6.31
4H	2H	6.01	6.06	6.22	6.26	6.51	6.85	6.91	7.06	7.10	7.35
	3H	6.15	6.21	6.38	6.41	6.67	6.97	7.02	7.19	7.23	7.48
	4H	6.19	6.25	6.42	6.46	6.72	6.98	7.04	7.21	7.25	7.51
	6H	6.20	6.25	6.44	6.48	6.74	6.98	7.03	7.21	7.25	7.51
	8H	6.20	6.25	6.44	6.47	6.74	6.96	7.02	7.21	7.24	7.51
	12H	6.19	6.24	6.44	6.47	6.74	6.95	7.00	7.20	7.23	7.50
8H	4H	6.16	6.22	6.38	6.42	6.67	7.31	7.37	7.53	7.57	7.82
	6H	6.44	6.48	6.69	6.72	6.99	7.58	7.63	7.84	7.87	8.14
	8H	6.43	6.48	6.69	6.72	7.00	7.57	7.62	7.83	7.86	8.14
	12H	6.42	6.46	6.69	6.72	7.00	7.55	7.60	7.82	7.85	8.13
12H	4H	6.40	6.45	6.65	6.69	6.95	7.70	7.75	7.95	7.98	8.25
	6H	6.42	6.47	6.69	6.72	6.99	7.71	7.76	7.97	8.00	8.28

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ZONAL LUMINOUS FLUX TABLE

[illegible]

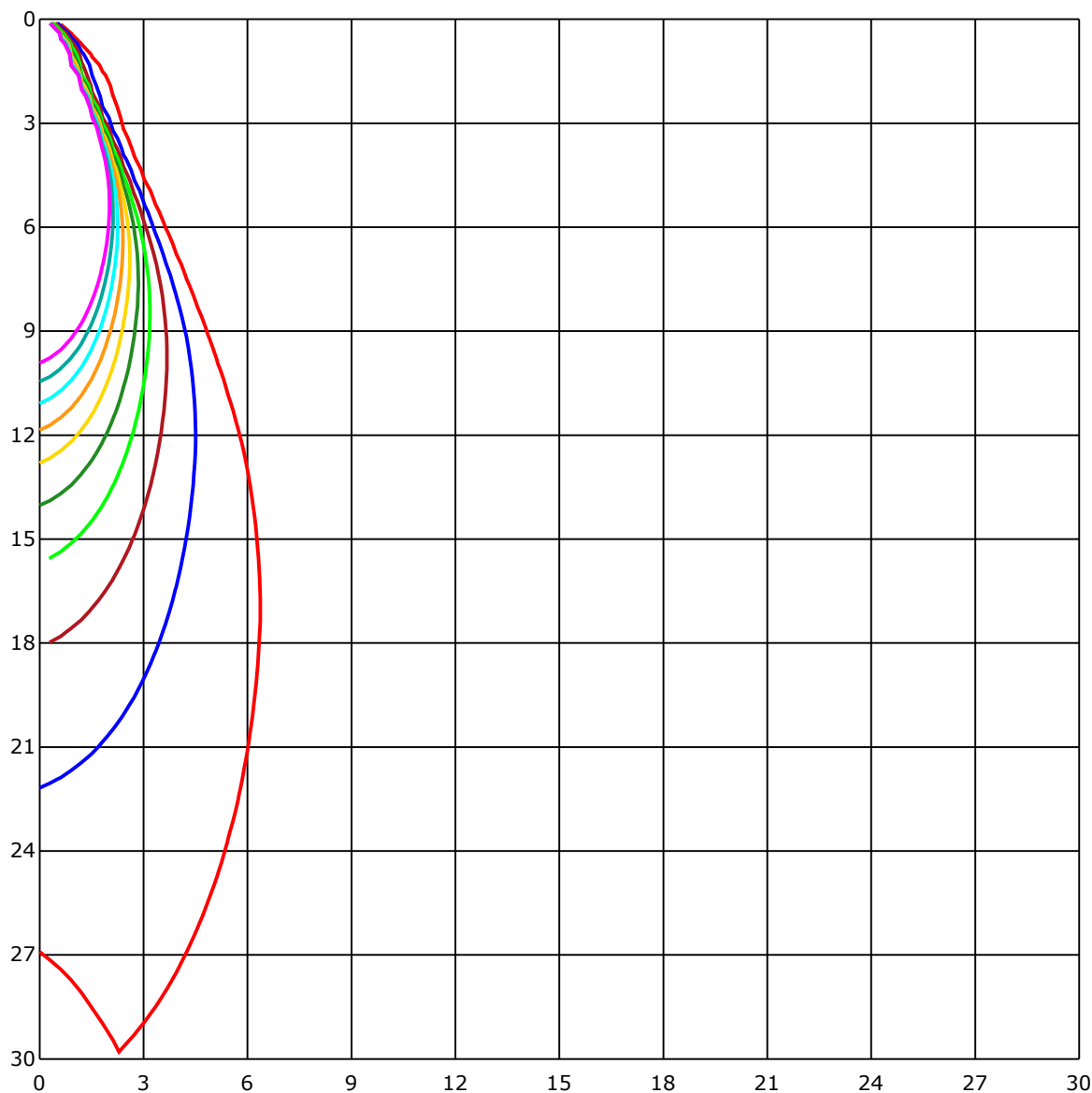
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SPACE ISOLX DIAGRAM



30.175
27.158
24.14
21.123
18.105

15.088
12.07
9.053
6.035
3.018

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2966.82	2998.86	3013.06	2997.2	2966.82	2998.86	3013.06	2997.2	2966.82	
G1	2922.34	2959.96	3000.81	2994.41	2994.64	3013.75	3012.82	2991.63	2922.34	
G2	2871.19	2921.83	2982.4	2970.2	3012.73	3027.76	3004.2	2980.18	2871.19	
G3	2802.51	2861.27	2953.09	2945.16	3019.27	3020.29	2978.78	2956.52	2802.51	
G4	2736.89	2798.98	2902.59	2896.42	3020.52	3006.89	2939.74	2916.41	2736.89	
G5	2651.65	2722.97	2850.18	2844.76	2998.91	2972.11	2894.94	2870.22	2651.65	
G6	2564.74	2640.61	2778.86	2773.94	2976.88	2942.05	2830.89	2810.21	2564.74	
G7	2471.24	2549.85	2702.94	2702.1	2932.18	2887.84	2761.37	2745.0	2471.24	
G8	2370.42	2448.61	2617.33	2619.83	2875.83	2831.73	2684.34	2664.49	2370.42	
G9	2262.64	2341.48	2518.64	2522.35	2813.92	2755.44	2600.87	2580.46	2262.64	
G10	2154.03	2240.06	2421.02	2425.42	2743.56	2677.39	2500.23	2482.65	2154.03	
G11	2041.62	2123.33	2317.51	2322.14	2661.39	2587.04	2400.8	2383.31	2041.62	
G12	1931.75	2012.17	2205.55	2207.64	2574.15	2486.83	2289.36	2281.43	1931.75	
G13	1817.39	1898.59	2094.62	2100.33	2475.88	2384.98	2175.13	2173.51	1817.39	
G14	1711.23	1786.18	1981.65	1985.64	2374.74	2285.92	2060.17	2062.3	1711.23	
G15	1599.09	1672.93	1868.45	1874.52	2270.16	2167.62	1947.61	1950.53	1599.09	
G16	1495.26	1565.7	1757.75	1764.75	2163.26	2057.34	1825.69	1837.51	1495.26	
G17	1392.12	1463.77	1651.87	1655.53	2050.24	1944.69	1707.8	1731.13	1392.12	
G18	1294.73	1361.42	1544.09	1546.69	1942.05	1830.09	1592.6	1615.14	1294.73	
G19	1199.05	1265.93	1442.34	1444.62	1832.88	1711.6	1483.02	1507.32	1199.05	
G20	1111.03	1175.68	1342.87	1346.62	1721.99	1605.59	1381.5	1408.54	1111.03	
G21	1018.7	1087.84	1250.35	1252.57	1615.56	1495.12	1285.31	1311.93	1018.7	
G22	927.01	1002.51	1163.21	1163.07	1515.2	1395.18	1192.05	1211.25	927.01	
G23	835.23	916.72	1079.08	1082.79	1415.12	1297.23	1103.33	1120.86	835.23	
G24	747.49	831.43	993.61	996.48	1321.07	1208.56	1009.93	1028.9	747.49	
G25	661.79	746.01	908.6	910.55	1224.79	1118.27	923.81	939.63	661.79	
G26	564.21	660.72	825.4	823.55	1134.13	1032.89	837.18	849.66	564.21	
G27	461.67	562.68	739.0	740.86	1045.41	944.5	748.93	764.19	461.67	
G28	369.66	458.89	656.59	660.77	954.42	857.96	665.68	679.13	369.66	
G29	289.25	361.08	566.81	582.53	864.08	771.05	582.16	584.52	289.25	
G30	225.06	277.93	469.93	504.53	779.49	688.13	498.68	481.52	225.06	
G31	176.92	212.73	375.51	415.67	695.83	605.63	405.28	386.27	176.92	
G32	139.78	164.82	289.9	330.2	614.16	529.75	318.51	305.66	139.78	
G33	111.86	129.11	223.12	257.94	538.01	444.42	243.94	240.74	111.86	
G34	92.33	103.47	172.01	201.74	459.26	356.12	185.37	189.17	92.33	
G35	78.61	85.66	135.19	157.08	380.05	279.65	141.08	151.09	78.61	
G36	69.19	74.06	109.77	124.2	307.24	219.31	110.75	122.94	69.19	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	62.33	65.71	92.66	99.57	245.56	173.4	89.97	102.54	62.33	
G38	57.18	59.59	81.11	82.13	196.4	139.73	76.8	88.62	57.18	
G39	52.87	54.86	72.86	71.0	157.54	114.6	68.4	79.12	52.87	
G40	49.44	50.97	66.74	63.35	127.63	96.51	61.96	71.88	49.44	
G41	45.91	47.3	61.82	58.06	106.25	84.59	57.18	66.5	45.91	
G42	43.27	44.43	57.92	53.75	91.31	76.29	53.33	61.49	43.27	
G43	40.86	41.92	54.72	50.36	80.69	69.84	50.04	57.65	40.86	
G44	38.86	39.93	51.62	46.93	72.81	64.83	47.12	54.45	38.86	
G45	36.96	37.56	49.11	44.43	66.83	60.8	44.71	51.52	36.96	
G46	35.11	35.8	46.1	42.11	61.96	57.18	42.57	48.28	35.11	
G47	32.97	33.95	43.87	40.39	58.02	54.03	40.49	46.01	32.97	
G48	31.35	32.14	41.51	38.26	54.86	51.34	38.4	43.59	31.35	
G49	29.5	30.28	39.33	36.5	51.85	48.51	36.45	41.65	29.5	
G50	27.55	28.52	37.33	34.46	49.21	46.38	34.36	39.28	27.55	
G51	25.69	26.9	35.15	32.83	46.33	43.96	32.51	37.29	25.69	
G52	23.88	25.04	32.97	30.79	44.34	41.97	30.65	35.29	23.88	
G53	21.8	23.42	31.16	29.26	42.02	39.74	28.66	33.11	21.8	
G54	19.48	21.47	29.12	27.5	39.93	37.8	26.62	31.16	19.48	
G55	16.65	19.52	26.43	25.97	38.17	35.9	24.95	29.12	16.65	
G56	15.16	16.88	24.02	24.25	35.76	33.9	22.35	26.9	15.16	
G57	13.73	14.93	21.89	22.49	33.81	31.91	19.9	24.63	13.73	
G58	12.8	13.77	19.99	20.54	31.91	29.87	17.53	21.43	12.8	
G59	11.73	12.71	18.6	18.41	30.14	27.96	16.14	19.71	11.73	
G60	10.81	11.69	17.39	16.42	28.24	25.83	14.93	18.41	10.81	
G61	9.83	10.67	15.86	15.12	25.92	23.1	13.77	17.11	9.83	
G62	9.04	9.92	14.84	13.96	23.42	21.05	12.75	15.81	9.04	
G63	8.35	9.04	13.77	13.03	21.56	19.66	11.73	14.84	8.35	
G64	7.88	8.3	12.89	11.92	20.17	18.27	10.85	13.68	7.88	
G65	7.33	7.74	12.15	10.99	18.74	16.93	9.97	12.71	7.33	
G66	7.1	7.33	11.5	10.06	17.72	16.14	9.32	11.92	7.1	
G67	6.82	6.86	10.99	9.46	16.37	14.84	8.81	11.08	6.82	
G68	6.77	6.72	10.48	8.9	15.26	13.91	8.53	10.57	6.77	
G69	6.49	6.49	10.2	8.3	14.28	13.03	8.16	10.2	6.49	
G70	6.21	6.35	9.97	8.02	13.59	12.38	7.88	9.88	6.21	
G71	5.98	5.94	9.74	7.88	12.71	11.69	7.74	9.46	5.98	
G72	5.61	5.61	9.18	7.51	12.1	11.18	7.47	9.18	5.61	
G73	5.24	5.24	8.81	7.37	11.69	10.94	7.23	8.77	5.24	

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